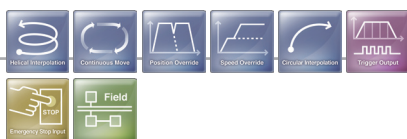
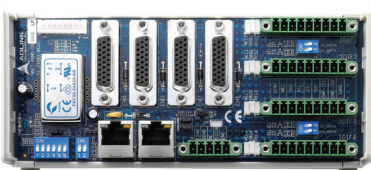
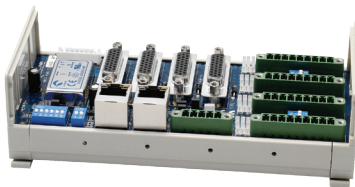


MNET-4XMO / MNET-4XMO-C

Distributed 4-axis Motion Control Modules (with High-Speed Trigger Function)



Features

- Up to 256 axes on a single Motionnet network
- Transmission speed selectable: 2.5/5/10/20 Mbps
- Maximum wiring distance up to 100 meters
- 4-axis pulse train output channels; frequency up to 9.9 MHz
- Encoder frequency up to 20 MHz under 4xAB feedback mode
- 26 homing modes which includes 13 auto-homing modes
- Pulse output mode: OUT/DIR, CW/CCW, AB phase
- Linear interpolation: any 2 to 4 axes
- Circular interpolation: any 2 of 4 axes
- Position/Speed override
- Triangle Driver Elimination
- Programmable acceleration and deceleration
- 4 channels high-speed trigger pulse output frequency up to 100 kHz (MNET-4XMO-C only)
- One ultra-high speed linear trigger pulse output up to 1 MHz (MNET-4XMO-C only)
- Point table for continuous contouring up to 2,048 points (MNET-4XMO-C only)
- Dedicated motion I/O: EL, ORG, INP, RDY, SVON, ERC, and ARM
- Hardware emergency stop interface
- All digital inputs and outputs are 2500 VRMS isolated
- Hardware backlash compensation

Software Support

- OS Information
 - Windows® 8/7/XP

Ordering Information

- **MNET-4XMO**
Motionnet distributed 4-axis motion control module
- **MNET-4XMO-C**
Motionnet distributed 4-axis motion control module with high-speed trigger function

Introduction

The MNET-4XMO is a 4-axis motion controller module for Motionnet distributed motion systems. It can generate fast frequency pulses (9.9 MHz) to drive stepper or servomotors in the machine automation field. As a motion controller, it can provide comprehensive motion functions which include 2 axes circular interpolation, 2-4 axes linear interpolation, or continuous interpolation for continual velocity and so on. Also, changing position/speed on the fly is available with a single axis operation.

In addition to the motion functions offered, ADLINK offers other model (MNET-4XMO-C) that comes equipped with the real-time position comparison and trigger pulse output function to easily integrate into Automated Optical Inspection application system. Up to 100 KHz trigger output frequency and easy trigger the most frame grabber or CCD to realize the line scan application. The path move function features the continuous moving with constant velocity. By using the path moving function, you can save the host PC resource with path auto-reload function and is able to guarantee the time-deterministic, continuous and smooth in whole motion progression.

Specifications

Hardware

■ Number of Controllable Axes	4
■ Pulse Output Rate	0.01 pps to 9.9 Mpps
■ Positioning Range	-2,147,483,648 to +2,147,483,647
■ Acceleration / Deceleration	1 to 65,535 (16-bit)
■ Speed Resolution	16-bit

Trajectories

■ Acceleration / Deceleration Type	Pure S, T, bell curve programmable
■ Interpolation Mode	Any 2 - 4 axes linear interpolation Any 2 axes circular interpolation

I/O

■ EMG Input	1
■ CMP Output	4 (differential type)

General Specifications

■ Dimension	163.5 (W) × 74.9 (D) × 52.7 (H) mm (6.37" × 2.92" × 2.05")
■ Module Power Supply Input (I24 V, IGND)	24 V _{DC} ± 10% (Consumption current, 0.3 A max.)
■ I/O Power Supply Input (E24 V, EGND)	24 V _{DC} input (can be common to module power input by jumper)
■ Operating Temperature	0°C to 70°C (32°F to 158°F)

The following specifications are only applicable to the MNET-4XMO-C.

Trigger Function (channel to channel ONLY)

■ Trigger Spec.	Max. 100 KHz (4-axis)
■ Table Size	32,768 points/4-axis (8,192 points/axis)

High-Speed Trigger Function (Linear function ONLY)

■ Trigger Pulse Frequency	Max. 1 MHz/1-axis
■ Trigger Pulse Width	0.1 us to 1 s (programmable)

Path Move

■ Path Number	2,048 points total (min.)
■ Auto Reload	Point index check
■ Continuous move	1 group (includes single axis move or linear / circular interpolation move)

Accessories

For more information on terminal boards & cables, please refer to page 6-31.

Cabling

- **HSL-4XMO-DM Cable**
For Mitsubishi MR-J2S-A servo amplifier, available for 1 M, 2 M, and 3 M
- **HSL-4XMO-DY Cable**
For Yaskawa Sigma V servo amplifier, available for 1 M, 2 M, and 3 M
- **4XMO-DM-J3 Cable**
For Mitsubishi MR-J3 servo amplifiers, available for 2 M
- **4XMO-DA Cable**
For Delta A2 servo, available for 3 M
- **HSL-4XMO-DP Cable**
For Panasonic MINAS A4/A5 servo amplifiers, available for 1 M, 1.5 M, and 2 M
- **4XMO-Open Cable**
Controller to amplifier bus (26-pin SCSI to open wire), available for 1 M and 2 M

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9